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done upon the histology of the tongue of these animals, and it is a favorable sign that in this country where so little has been accomplished in histology, that these studies should originate here.

The paper is illustrated by a rather coarse but well-drawn lithographic plate, and photo-engravings in the text. The author's conclusions are rather long and technical for reproduction in these pages, but we can commend the paper as most excellent in its kind and of interest to the many who study birds, and especially so to the very few who are concerned with the reptiles.

**NATURAL HISTORY OF COLEOPTERA.**—Rupertsberger's "*Biologie der Käfer Europas*," which was acknowledged in the March number of the *NATURALIST*, will be of great assistance to the student of the earlier states of the Coleoptera. The European literature of this branch of Coleopterology has become quite extensive since the publication of the well-known catalogue, by Chapuis and Candèze, and it was always a difficult matter to ascertain whether and just where any particular beetle larva had been described or figured. The very handy, well arranged and carefully executed work of Mr. Rupertsberger, who was already favorably known as the author of several valuable papers on the habits and early history of European beetles, does away with the difficulty. The number of species enumerated, of which either the earlier states, or at least the habits, have been described is remarkably large when compared with the small number of Coleopterous larvæ described in our own country.

**REPORT OF THE STATE GEOLOGIST OF NEW JERSEY**<sup>1</sup>.—The annual report of the State Geologist of New Jersey, Professor Cook, contains among other interesting information, a classified catalogue of the iron mines of the Highlands of the State. Also a geological map of the valley of the Passaic river and its surroundings. The upper part of the valley is supposed to have been a glacial lake.

The chapter on surface geology is full of interest. The author, however, rehearses a number of facts which had already been published by Professor H. C. Lewis in his paper on the Trenton gravel, etc., in the Proceedings of the Philadelphia Academy, and adopts a number of the views there set forth as to age of gravels, &c., but without giving credit to the earlier publication.

**KINGSLEY'S NOTES ON CRUSTACEA**<sup>2</sup>.—These notices contain descriptions of new species of crabs, with rectifications of synonymy and facts in their geographical distribution, based on the collection in the museum of the Academy of Natural Sciences of Philadelphia. The second notice is devoted to a revision of the fiddler-crabs or Gelasimi. The value of Mr. Kingsley's work on this genus con-

<sup>1</sup> *Geological Survey of New Jersey*. Annual Report of the State Geologist for the year 1880. 8vo. Trenton, John L. Murphy.

<sup>2</sup> *Carcinological Notes*, No. 1, 2, 3, 4. From the Proceedings of the Academy of Natural Sciences, Philadelphia, 1880. 8vo. pp. 34-37, 135-155, 179-224.